



TYPICAL SECTION  
HOT MIX ASPHALT PAVED SHOULDER

GENERAL NOTES:

Contract items:

- Paved Shoulder, Hot Mix Asphalt Mixture, 150 mm.
- Special Backfill
- Granular Shoulders, Type A or Type B
- Earth Shoulder Construction

- ① Rates indicated are for design purposes. Quantities listed are for one shoulder per station.
- ② Quantities shown are based on a design density of 2325 kilograms per cubic meter for Hot Mix Asphalt with an asphalt content of 6.0% utilizing a 19 millimeter aggregate mix size, with 45% crushed particles, and no special aggregate frictional requirements.  $N_{mi}$ ,  $N_{des}$ , and  $N_{max}$  shall be 7, 68 and 104 respectively regardless of design ESALs for the pavement. Asphalt Binder PG58-28 shall be utilized with this mix.
- ③ Includes quantity for tack coating vertical face of adjacent pavement prior to placement of any base material. Tack Coat estimated at one (1) application at 0.2 liters per square meter.
- ④ Quantities have been determined on the basis of a design weight of 2250 kg per cubic meter and have been adjusted for the flatter than 6:1 slope at the outside edge. Quantities indicated are for design purposes.

DESIGN QUANTITY TABLE ①

HMA SHOULDER ②															
SURFACE AREA ③				HOT MIX ASPHALT				ASPHALT BINDER				TACK COAT ③			
Sq. Meters				MG				MG				Liters			
E=1.2 m	E=1.8 m	E=2.4 m	E=3.0 m	E=1.2 m	E=1.8 m	E=2.4 m	E=3.0 m	E=1.2 m	E=1.8 m	E=2.4 m	E=3.0 m	E=1.2 m	E=1.8 m	E=2.4 m	E=3.0 m
120	180	240	300	44.47	65.39	86.32	107.24	2.67	3.92	5.18	6.43	30	42	54	66

GRANULAR SHOULDER ④

MG			
G=0.6 m	G=1.2 m	G=1.8 m	G=2.4 m
48.4	68.6	88.9	109.2

All dimensions given in millimeters unless noted.

<b>M</b> <b>METRIC VERSION</b>		
	<b>STANDARD ROAD PLAN RJ-34</b>	
	REVISION: Changed quantities for Granular Shoulders.	
	REVISION NO. 1	
	REVISION DATE 04-20-04	
APPROVED BY DESIGN METHODS ENGINEER		
PARTIALLY PAVED SHOULDER (150 mm HMA)		